

Title (en)
ADSORBENT FOR ENDOTOXIN, TUMOR NECROSIS FACTOR-ALPHA OR INTERLEUKINS, METHOD FOR REMOVAL VIA ADSORPTION, AND ADSORBER

Title (de)
ADSORBENT FÜR ENDOTOXINE, TUMOR NEKROSE FAKTOR-ALPHA ODER INTERLEUKINE, METHODE ZUR ENTFERNUNG MITTELS ADSORPTION SOWIE ADSORBER

Title (fr)
ADSORBANT POUR LES ENDOTOXINES, LE FACTEUR ALPHA DE NECROSE TUMORALE OU LES INTERLEUKINES, PROCEDE D'ELIMINATION PAR ADSORPTION ET ADSORBEUR

Publication
EP 0800862 A1 19971015 (EN)

Application
EP 95939386 A 19951204

Priority

- JP 9502500 W 19951204
- JP 32330894 A 19941226
- JP 32330994 A 19941226
- JP 2841895 A 19950216
- JP 22929895 A 19950906

Abstract (en)
An adsorbent includes styrene-divinylbenzene copolymer having sulfonic acid groups for adsorbing endotoxin, tumor necrosis factor- alpha (TNF- alpha), and/or interleukins. A method for adsorbing and removing endotoxin, TNF- alpha , and/or interleukins, includes contacting an adsorbent with a fluid containing endotoxin, TNF- alpha , and/or interleukin. In an adsorber for adsorbing endotoxin, TNF- alpha , and/or interleukins, the adsorbent is charged in a vessel having an inlet and an outlet for fluid. <IMAGE>

IPC 1-7
B01J 20/26; **B01D 15/00**; **A61M 1/36**; **C07K 1/14**

IPC 8 full level
A61M 1/36 (2006.01); **B01D 15/00** (2006.01); **B01J 20/26** (2006.01); **C07K 14/52** (2006.01); **C07K 14/525** (2006.01); **C07K 14/54** (2006.01); **C07K 14/55** (2006.01)

CPC (source: EP US)
A61M 1/3679 (2013.01 - EP); **B01D 15/00** (2013.01 - EP US); **B01J 20/26** (2013.01 - EP); **C07K 14/52** (2013.01 - EP); **C07K 14/525** (2013.01 - EP); **C07K 14/54** (2013.01 - EP); **C07K 14/5412** (2013.01 - EP); **C07K 14/55** (2013.01 - EP)

Cited by
US8785141B2; US6517827B1; EP1312387A4; EP1243298A4; CN106823465A; KR20140025593A; EP2742997A4; EP3365045A4; AU2016342263B2; US6730295B2; WO2004065008A1; WO2013007799A1; US6774102B1; US6419914B2; US11040061B2; US11723916B2; EP1463548A4; US7678369B2; US6290946B1; US6517826B1; US6890523B2

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0800862 A1 19971015; **EP 0800862 A4 19980729**; **EP 0800862 B1 20020227**; CA 2208745 A1 19960704; CA 2208745 C 20010213; DE 69525655 D1 20020404; DE 69525655 T2 20020912; WO 9620042 A1 19960704

DOCDB simple family (application)
EP 95939386 A 19951204; CA 2208745 A 19951204; DE 69525655 T 19951204; JP 9502500 W 19951204